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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/741,676	12/19/2003	Jaroslav J. Sydir	Intel-019PUS	4166
7590 06/22/2007 Daly, Crowley & Mofford, LLP c/o PortfolioIP P.O. Box 52050 Minneapolis, MN 55402			EXAMINER YOUNG, NICOLE M	
			ART UNIT 2139	PAPER NUMBER
			MAIL DATE 06/22/2007	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/741,676

Applicant(s)

SYDIR ET AL.

Examiner

Nicole M. Young

Art Unit

2139

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 12 March 2007.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-16 and 18 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-16 and 18 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 12 March 2007 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☒ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Notice to Applicant

This communication is in response to the amendment filed on March 12, 2007. Claims 1-16 and 18 remain pending. Claims 1-4, 6, 12, 14-16, and 18 have been amended and claim 17 has been cancelled.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 1-16 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Ohta et al. (US 2002/0083317)** hereinafter Ohta and further in view of **Platko et al (US 6,363,444)** hereinafter Platko.

Claim 1, 5, 9, 14 discloses (Currently Amended) a network processor, comprising:

Ohta teaches an authentication buffer configured to store authentication data including ~~at least one of~~ ciphered-network-packet data subject to authentication data in Figure 12, Data Accumulation Unit 304a and 304b; paragraph [0011] states "a data block accumulation unit that outputs the accumulated amount to the authentication processing unit when it reaches the smallest data block size for the authentication processing", teaches, network packet data subject only to authentication, and network packet data subject to ciphering and authentication (Ohta paragraph [0046], processing contexts), Ohta does not teach but Platko teaches wherein the authentication buffer includes a circular first-in-first-out (FIFO) arrangement in Figures 4 and 5 associated

Art Unit: 2139

text column 7 lines 1-24 in particular. line 22 recites a "the FIFO buffer is a circular buffer" It would be obvious to one of ordinary skill in the art at the time of invention to use a FIFO buffer for the authentication buffers disclosed by Ohta. The motivation to combine would be that the authentication in Ohta uses the same techniques as in Platko (column 7 lines 3-5, DES and MD5); and

at least one authentication core coupled to the authentication buffer to authenticate the authentication data from the authentication buffer (Figure 12, Authentication Processing Unit 305a and 305b and associated text in paragraph [0104]).

Claim 2, 6, 12 discloses (Currently Amended) the network processor of Claim 1, wherein the circular FIFO arrangement includes a moveable start of data pointer and a moveable end of data pointer (Platko column 7 lines 15-24 especially "The FIFO buffer...wrap from entry 15 back to entry 0).

Claim 3, 7, 13, 18 discloses (Currently Amended) the network processor of Claim 1, wherein the network processor further includes at least one cipher core adapted to operate with a cipher algorithm (Ohta Figure 12, Encryption and Authentication Processing Control Unit 301 and associated text in paragraph [0104]) and the at least one authentication core is adapted to operate with an authentication algorithm (Figure 12, Authentication Processing Unit 305a and 305b and associated text in paragraph [0104] Ohta), and a size of the authentication buffer is selected in accordance with a data block size associated with the cipher algorithm and a data block size associated with the authentication algorithm (Ohta Figure 12, Data Accumulation Unit 304a and

304b; paragraph [0011] states "a data block accumulation unit that outputs the accumulated amount to the authentication processing unit when it reaches the smallest data block size for the authentication processing").

Claim 4, 8 discloses (Currently Amended) the network processor of Claim 1, wherein the authentication core is adapted to authenticate the authentication data from the authentication buffer as blocks of authentication data (Ohta in Figure 12, Authentication Processing Unit 305a and 305b and associated text in paragraph [0104]).

Claim 10, 15 discloses (Original) the method of Claim 9, wherein the moving to an authentication buffer authentication data comprises selecting the authentication buffer from among a plurality of authentication buffers (Ohta Figure 12, Data Accumulation Unit 304a and 304b; paragraph [0011] states "a data block accumulation unit that outputs the accumulated amount to the authentication processing unit when it reaches the smallest data block size for the authentication processing").

Claim 11 and 16 discloses (Original) the method of Claim 9, further including:

- setting a start of data pointer and an end of data pointer to respective initial locations;

- setting the end of data pointer in accordance with the moving the authentication data to the authentication buffer; and

- setting the start of data pointer in accordance with the moving to the authentication core the block of data from the authentication buffer (Platko teaches wherein the authentication buffer includes a circular first-in-first-out (FIFO) arrangement in Figures 4 and 5 associated text column 7 lines 1-24 in particular line 22 recites a "the

Art Unit: 2139

FIFO buffer is a circular buffer" also Platko column 7 lines 15-24 especially "The FIFO buffer...wrap from entry 15 back to entry 0).

Claim 17 (Cancelled)

Response to Arguments

Applicant's arguments with respect to claim 1-16 and 18 have been considered but are moot in view of the new ground(s) of rejection.

Drawings

The objections to the Drawings are withdrawn.

Specification

The objections to the Specification are withdrawn.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 14-18 have been amended and the U.S.C 101 rejections have been withdrawn.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

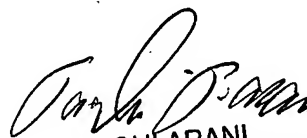
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nicole M. Young whose telephone number is 571-270-1382. The examiner can normally be reached on Monday through Friday, alt Fri off, 8:00am-5:30pm.

Art Unit: 2139

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on 571-272-3795. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

NMY
6/18/2007


TAGHI ARANI
PRIMARY EXAMINER
6/19/07